

Listing of claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-26. (Cancelled)

27 (Cancelled)

28 (Cancelled)

1 ~~29~~ (Currently amended) An isolated The nucleic acid molecule of ~~claim 28~~, comprising a polynucleotide encoding amino acids 25 to 417 of SEQ ID NO:4.

2 ~~30~~ (Previously presented) The nucleic acid molecule of claim ~~29~~, comprising nucleotides 73 to 1251 of SEQ ID NO:3.

31 (Cancelled)

32 (Cancelled)

3 ~~33~~ (Currently amended) The nucleic acid molecule of claim ~~29~~, comprising a polynucleotide encoding amino acids 1 to 417 of SEQ ID NO:4.

4 ~~34~~ (Previously presented) The nucleic acid molecule of claim 33, comprising nucleotides 1 to 1251 of SEQ ID NO:3.

5 ~~35~~ (Currently amended) The nucleic acid molecule of claim ~~29~~, further comprising a heterologous polynucleotide.

6 ~~36~~ (Previously presented) The nucleic acid molecule of claim ~~35~~, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

7 ~~37~~ (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ~~29~~ into a vector.

8 ~~38~~ (Currently amended) A vector comprising the nucleic acid molecule of claim ~~29~~.

9 ~~39~~ (Previously presented) The vector of claim ~~38~~, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

10 40 (Currently amended) A host cell comprising the nucleic acid molecule of claim 2927.

11 A1 (Previously presented) The host cell of claim 40, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide. ¹⁰

12 42 (Previously presented) A method of producing a polypeptide which comprises culturing the host cell of claim A1 under conditions such that the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

43 (Cancelled)

44 (Cancelled)

13 45 (Currently amended) An isolated ~~The~~ nucleic acid molecule of claim 44, comprising a polynucleotide encoding the mature amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97757.

46 (Cancelled)

47 (Cancelled)

14 48 (Currently amended) The nucleic acid molecule of claim 4547, comprising a polynucleotide encoding the complete amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97757. ¹³

15 49 (Currently amended) The nucleic acid molecule of claim 4543, further comprising a heterologous polynucleotide. ¹³

16 50 (Previously presented) The nucleic acid molecule of claim 49, wherein said heterologous polynucleotide encodes a heterologous polypeptide. ¹⁵

17 51 (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 4543 into a vector. ¹³

18 52 (Currently amended) A vector comprising the nucleic acid molecule of claim 4543. ¹³

19 ~~55~~ (Previously presented) The vector of claim ~~52~~¹⁸, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

20 ~~54~~ (Currently amended) A host cell comprising the nucleic acid molecule of claim ~~4543~~¹³.

21 ~~55~~ (Previously presented) The host cell of claim ~~54~~²⁰, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

22 ~~56~~ (Previously presented) A method of producing a polypeptide which comprises culturing the host cell of claim ~~55~~²¹ under conditions such that the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

57-121. (Cancelled)

23 ~~122~~. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 1 to 22 in SEQ ID NO:2.

24 ~~123~~. (Previously presented) The nucleic acid molecule of claim ~~122~~²³, further comprising a heterologous polynucleotide.

25 ~~124~~. (Previously presented) The nucleic acid molecule of claim ~~123~~²⁴, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

26 ~~125~~. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ~~122~~²³ into a vector.

27 ~~126~~. (Previously presented) A vector comprising the nucleic acid molecule of claim ~~122~~²³.

28 ~~127~~. (Previously presented) The vector of claim ~~126~~²⁷, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

29 ~~128~~. (Previously presented) A host cell comprising the nucleic acid molecule of claim ~~122~~²³.

30 ~~129~~. (Previously presented) The host cell of claim ~~128~~²⁹, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

31 130. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 129 under conditions such that said-the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

32 131. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 33 to 56 in SEQ ID NO:2.

33 132. (Previously presented) The nucleic acid molecule of claim 131, further comprising a heterologous polynucleotide.

34 133. (Previously presented) The nucleic acid molecule of claim 132, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

35 134. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 131 into a vector.

36 135. (Previously presented) A vector comprising the nucleic acid molecule of claim 131.

37 136. (Previously presented) The vector of claim 135, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

38 137. (Previously presented) A host cell comprising the nucleic acid molecule of claim 131.

39 138. (Previously presented) The host cell of claim 137 wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

40 139. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 138 under conditions such that said-the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

41 140. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 59 to 82 in SEQ ID NO:2.

42 141. (Previously presented) The nucleic acid molecule of claim 140, further comprising a heterologous polynucleotide.

43 142. (Previously presented) The nucleic acid molecule of claim 141, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

44 143. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 140 into a vector.

45 144. (Previously presented) A vector comprising the nucleic acid molecule of claim 140.

46 145. (Previously presented) The vector of claim 144, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

47 146. (Previously presented) A host cell comprising the nucleic acid molecule of claim 140.

48 147. (Previously presented) The host cell of claim 146, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

49 148. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 147 under conditions such that said the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

50 149. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 95 to 112 in SEQ ID NO:2.

51 150. (Previously presented) The nucleic acid molecule of claim 149, further comprising a heterologous polynucleotide.

52 151. (Previously presented) The nucleic acid molecule of claim 150, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

53 152. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 151 into a vector.

54 153. (Previously presented) A vector comprising the nucleic acid molecule of claim 149.

55 154. (Previously presented) The vector of claim 153, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

56 155. (Previously presented) A host cell comprising the nucleic acid molecule of claim 149. ⁵⁰

57 156. (Previously presented) The host cell of claim 155, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide. ⁵⁶

58 157. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 156 under conditions such that said-the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

59 158. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 179 to 190 in SEQ ID NO:2. ⁵⁹

60 159. (Previously presented) The nucleic acid molecule of claim 158, further comprising a heterologous polynucleotide. ⁵⁹

61 160. (Previously presented) The nucleic acid molecule of claim 159, wherein said heterologous polynucleotide encodes a heterologous polypeptide. ⁶⁰

62 161. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 158 into a vector. ⁵⁹

63 162. (Previously presented) A vector comprising the nucleic acid molecule of claim 158. ⁵⁹

64 163. (Previously presented) The vector of claim 162, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide. ⁶³

65 164. (Previously presented) A host cell comprising the nucleic acid molecule of claim 158. ⁵⁹

66 165. (Previously presented) The host cell of claim 164, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide. ⁶⁵

67 166. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 165 under conditions such that said-the ⁶⁶

polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

68 167. (Previously presented) An isolated nucleic acid molecule comprising a polynucleotide encoding amino acids 196 to 205 in SEQ ID NO:2.

69 168. (Previously presented) The nucleic acid molecule of claim 167, further comprising a heterologous polynucleotide.

70 169. (Previously presented) The nucleic acid molecule of claim 168, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

71 170. (Previously presented) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 167 into a vector.

72 171. (Previously presented) A vector comprising the nucleic acid molecule of claim 167.

73 172. (Previously presented) The vector of claim 171, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

74 173. (Previously presented) A host cell comprising the nucleic acid molecule of claim 167.

75 174. (Previously presented) The host cell of claim 173, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

76 175. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 174 under conditions such that said the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

176. (Cancelled)

77 177. (Currently amended) An isolated The nucleic acid molecule of claim 176 comprising a polynucleotide encoding amino acids 25 to 201 of SEQ ID NO:4.

78 178. (Previously presented) The nucleic acid molecule of claim 177 comprising nucleotides 73 to 603 of SEQ ID NO:3.

79 179. (Currently amended) The nucleic acid molecule of claim ²²~~171476~~, further comprising a heterologous polynucleotide.

80 180. (Previously presented) The nucleic acid molecule of claim ²²~~179~~, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

81 181. (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ²²~~171476~~ into a vector.

82 182. (Currently amended) A vector comprising the nucleic acid molecule of claim ²²~~171476~~.

83 183. (Previously presented) The vector of claim ⁸²~~182~~, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

84 184. (Currently amended) A host cell comprising the nucleic acid molecule of claim ²²~~171476~~.

85 185. (Previously presented) The host cell of claim ⁸⁴~~184~~, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

86 186. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim ⁸⁵~~185~~ under conditions such that said—the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

187. (Cancelled)

87 188. (Currently amended) An isolated The nucleic acid molecule comprising a polynucleotide of claim ⁸⁷~~187~~ encoding amino acids 202 to 224 of SEQ ID NO:4.

88 189. (Previously presented) The nucleic acid molecule of claim ⁸⁷~~188~~ comprising nucleotides 604 to 672 of SEQ ID NO:3.

89 190. (Currently amended) The nucleic acid molecule of claim ⁸⁷~~188~~¹⁸⁷, further comprising a heterologous polynucleotide.

90 191. (Previously presented) The nucleic acid molecule of claim ⁸⁹~~190~~, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

91 192. (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ~~188487~~⁸⁷ into a vector.

92 193. (Currently amended) A vector comprising the nucleic acid molecule of claim ~~188487~~⁸⁷.

93 194. (Previously presented) The vector of claim ~~193~~⁹², wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

94 195. (Currently amended) A host cell comprising the nucleic acid molecule of claim ~~188487~~⁸⁷.

95 196. (Previously presented) The host cell of claim ~~195~~⁹⁴, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide.

96 197. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim ~~196~~⁹⁵ under conditions such that said the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

198. (Cancelled)

97 199. (Currently amended) An isolated The nucleic acid molecule comprising a polynucleotide of claim 198 encoding amino acids 225 to 417 of SEQ ID NO:4.

98 200. (Previously presented) The nucleic acid molecule of claim ~~199~~⁹⁷ comprising nucleotides 673 to 1251 of SEQ ID NO:3.

99 201. (Currently amended) The nucleic acid molecule of claim ~~199~~⁹⁷ further comprising a heterologous polynucleotide.

100 202. (Previously presented) The nucleic acid molecule of claim ~~201~~⁹⁹, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

101 203. (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim ~~199~~⁹⁷ into a vector.

102 204. (Currently amended) A vector comprising the nucleic acid molecule of claim ~~199~~⁹⁷.

103 205. (Previously presented) The vector of claim 204, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide. 102

104 206. (Currently amended) A host cell comprising the nucleic acid molecule of claim 199-198. 104

105 207. (Previously presented) The host cell of claim 206, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide. 104

106 208. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 207 under conditions such that said the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide.

209. (Cancelled)

107 210. (Currently amended) An isolated The nucleic acid molecule comprising a polynucleotide of claim 209 encoding amino acids 342 to 408 of SEQ ID NO:4. 107

108 211. (Previously presented) The nucleic acid molecule of claim 210 comprising nucleotides 1024 to 1224 of SEQ ID NO:3. 107

109 212. (Currently amended) The nucleic acid molecule of claim 210-209, further comprising a heterologous polynucleotide. 107

110 213. (Previously presented) The nucleic acid molecule of claim 212, wherein said heterologous polynucleotide encodes a heterologous polypeptide. 109

111 214. (Currently amended) A method of producing a vector which comprises inserting the nucleic acid molecule of claim 210-209 into a vector. 109

112 215. (Currently amended) A vector comprising the nucleic acid molecule of claim 210-209. 112

113 216. (Previously presented) The vector of claim 215, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide. 112

114 217. (Currently amended) A host cell comprising the nucleic acid molecule of claim 210-209.

115 218. (Previously presented) The host cell of claim 211, wherein said nucleic acid molecule is operably associated with a heterologous regulatory polynucleotide. ¹¹⁴

116 219. (Currently amended) A method of producing a polypeptide which comprises culturing the host cell of claim 218 under conditions such that said the polypeptide encoded by said nucleic acid molecule is expressed, and recovering said polypeptide. ¹¹⁵

12-173
✓

--The present application is a continuation of U.S. Application No. 08/815,469, filed
March 11, 1997, which is herein incorporated by reference; said 08/815,469 claims priority to
U.S. Provisional Application No. 60/013,285, filed March 12, 1996, U.S. Provisional Application
No. 60/028,711, filed October 17, 1996, and U.S. Provisional Application No. 60/037,341, filed
February 6, 1997, each of which is herein incorporated by reference.--

At page 5, line 1, please delete "in a bacterial host".

On page 7, line 26, delete "shares" and substitute therefor --share--.

On page 8, lines 3-4, please delete "12301 Park Lawn Drive, Rockville, Maryland 20852"

and insert therefor --10801 University Blvd., Manassas, VA 20110-2209, USA--.

On page 8, lines 8-9, please delete "12301 Park Lawn Drive, Rockville, Maryland 20852"

and insert therefor --10801 University Blvd., Manassas, VA 20110-2209, USA--.

On page 10, line 18, after "species" please delete "on" and substitute therefor --of--.

On page 13, line 27, please delete "hybridiz" and substitute therefor --hybridization with

chromosomes, and for detecting expression of the--.

On page 14, line 13, please delete "DR3" and substitute therefor --DR3-V1--;

On page 14, line 15, please delete "DR3" and substitute therefor --DR3-V1--;

On page 14, line 17, please delete "DR3" and substitute therefor --DR3-V1--;

On page 14, line 17, please delete "214" and substitute therefor --236--; and

On page 14, line 18, please delete "DR3" and substitute therefor --DR3-V1--.

On page 15, line 24, please delete "(150mM NaCl, 15mM trisodium citrate)" and insert
--(750mM NaCl, 75mM trisodium citrate)--.

On page 15, line 25, please delete "20 g/ml" and insert therefor --20 μ g/ml--.

On page 23, line 19, please delete "the is" and substitute therefor --is then--.

On page 33, line 5, after "such" and before "the", please insert --as--.